

SCREENING SITE INSPECTION REPORT

FOR

ALCO STEEL SERV

JOLIET, ILLINOIS

U.S. EPA ID: ILD025552522

SS ID: NONE

TDD: F05-8808-002

PAN: FIL0422SD

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Alco Steel Serv (Alco) site under contract number 68-01-7347.

The site was discovered by the Illinois Environmental Protection Agency (IEPA) in 1985. The site was discovered after a review of IEPA file information indicated that an on-site incinerator had exceeded allowable emission levels and violated the site's operating permit (U.S. EPA 1985).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Mary E. Dinkel of IEPA and is dated March 29, 1985 (U.S. EPA 1985).

FIT prepared an SSI work plan for the Alco site under technical directive document (TDD) F05-8808-002, issued on August 5, 1988. The SSI work plan was approved by U.S. EPA on January 16, 1990. The SSI of the Alco site was conducted on November 5, 1990, under amended TDD F05-8808-002, issued on March 21, 1990.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of five soil samples and three groundwater samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) estab-

lish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

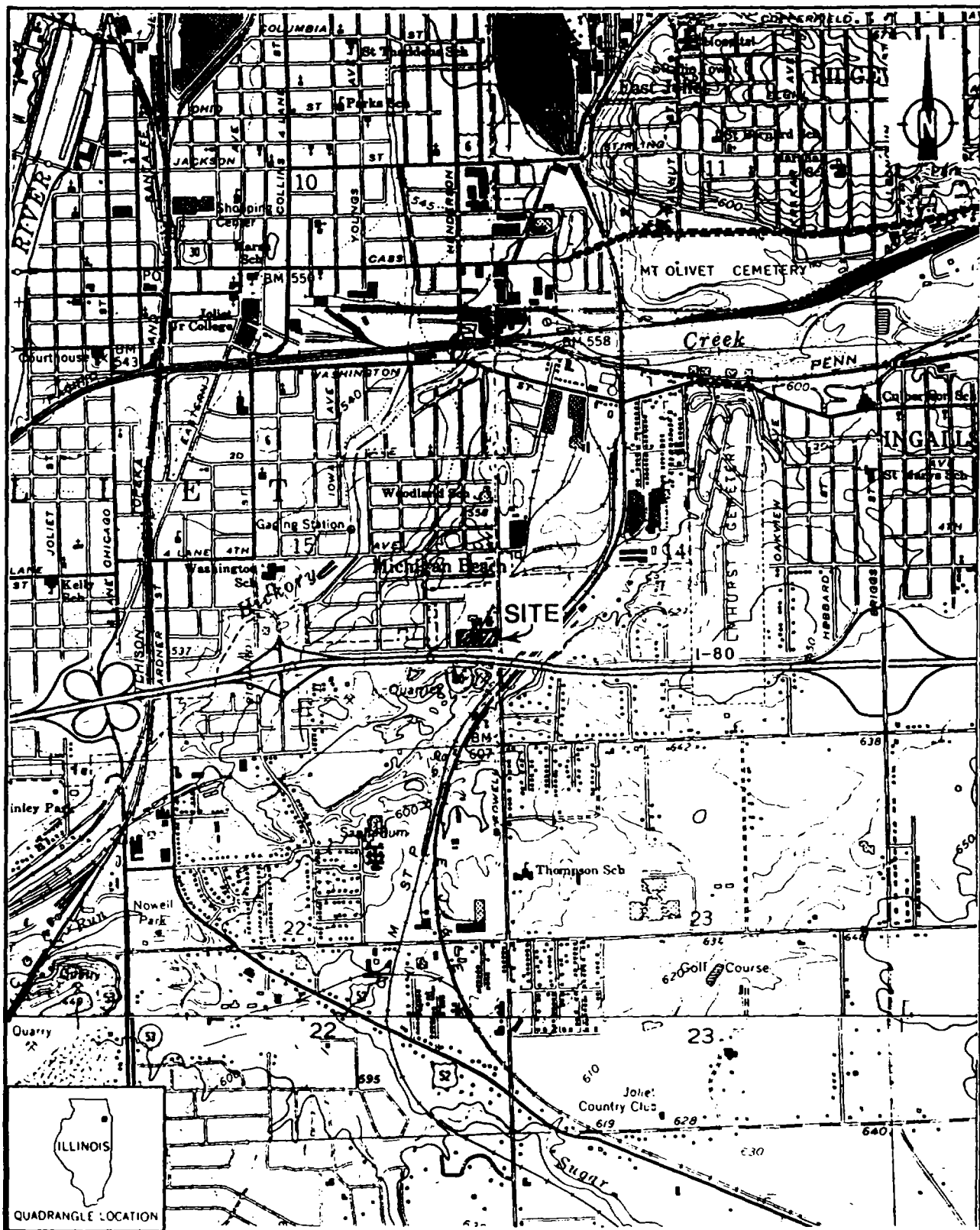
The Alco site is an approximately 8-acre parcel of land containing an active scrap metal processing facility. The site is situated in Joliet Township, Will County, Illinois (SE1/4/NE1/4SE1/4 sec. 15, T.35N., R.10E.). The site address is 525 Rowell Avenue, Joliet, Illinois. The site is located in an urban area in the southeast corner of Joliet (see Figure 2-1 for site location). The topography of the site area is generally flat.

Hickory Creek, which is located approximately 1/2 mile west of the site, flows into the Des Plaines River at a point approximately 2 miles downstream of the site.

A 4-mile radius map of the Alco site is provided in Appendix A.

2.3 SITE HISTORY

Albert Cohn owns Alco Steel Service, which operates a scrap metal processing facility on-site. Alco Steel Service purchases scrap metal and resells it to mills and foundries. Cohn has owned the site since 1944. Prior to 1944 the site was owned and operated by McKeand Auto Wrecking and Scrap (Cohn 1987). It is not known when McKeand Auto



SOURCE: USGS, Joliet, IL Quadrangle, 7.5 Minute Series, 1962, photorevised 1973.



FIGURE 2-1 SITE LOCATION

Wrecking and Scrap began operating on-site, nor the previous site ownership. There are no records of any environmental problems on-site between 1944 and 1970.

In March 1970, Alco Steel Service was permitted to install a Brulle incinerator on-site. This incinerator was a demonstration model used to determine whether the incinerator would be effective for burning insulated wire (Illinois Air Pollution Control Board 1970). At approximately the same time, a single chamber incinerator built by Alco Steel Service was operated on-site (Cohn 1987). There were no permits for the single chamber incinerator; however, U.S. EPA records indicate that as of March 1972 the single chamber incinerator was no longer in operation (IEPA 1972). The incinerators were to be used in the processing of insulated wire by burning off the insulation so that the wire could later be resold. Alco Steel Service also stripped insulation from the wires and then resold the wire (Cohn 1987).

On September 3, 1970, during a routine site inspection, an engineer with IEPA's Bureau of Air Pollution Control observed open burning of refuse on-site (Bureau of Air Pollution Control 1970). According to FIT file information, no action was taken regarding this observation.

In November 1971, an installation permit for a united wire (UW) incinerator was issued for the Alco site. However, no operating permit was issued at that time for the UW incinerator at the Alco site (IEPA 1972). During a routine site investigation in March 1972, IEPA discovered the lack of an operating permit. There were three incinerators at the Alco site at the time of IEPA's 1972 inspection. However, none of the incinerators were in operation at the time of the inspection (IEPA 1972). Cohn stated that he was not aware of the operating permit requirements for the incinerator (IEPA 1972). IEPA representatives told Cohn that information on operating permits would be sent to him (IEPA 1972).

Attorneys representing Cohn informed the Bureau of Air Pollution Control that the UW incinerator manufacturer was supposed to have applied for all of the necessary permits. The attorneys stated that the appropriate forms for the application were being furnished to the manufacturer, and that they expected the application to be filed forthwith (McSteen 1973).

An operating permit was granted for the UW incinerator in September 1973. This permit was renewed in 1978 and expired on September 9, 1987 (IEPA 1978, 1982).

During a January 11, 1984, site inspection, IEPA discovered that emissions from the UW incinerator had violated IEPA's Air Pollution Control Regulations (IEPA 1984). A response to a notice of violation was issued by Cohn's attorney on January 23, 1984. Cohn's attorney indicated that the emissions problem had been caused by an operator who had flooded the furnace with oil, thus causing the emissions. Cohn's attorney also indicated that the operator had since been instructed how to avoid flooding the furnace, and that no future problems were anticipated (Krockery 1984). There are no records of other violations occurring at the site.

A nonsampling site investigation was conducted by Ecology and Environment, Inc. (E & E), in January 1987 (U.S. EPA 1987). The investigation revealed that of the three incinerators, only the UW incinerator remained on-site. The UW incinerator ceased operating in 1988 (Cohn 1991).

According to FIT and state files, there is no information available regarding regulatory related or other actions since 1987.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of Alco site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan with the following exception.

The U.S. EPA-approved work plan proposed the collection of three residential well samples, including one potential sidegradient well sample to be collected east of the site. Based upon observations made during the reconnaissance inspection, groundwater samples were collected from two on-site wells and one off-site downgradient well. The groundwater sampling locations were selected based upon their proximity to the site. An upgradient sample was not collected because of the presence of a municipal water supply northeast of the site.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-130) for the Alco site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Joseph I. Hershman, FIT team leader, conducted an interview with Albert Cohn and John Parker, attorney representing Cohn. The interview was conducted on November 5, 1990, at 8:00 a.m. in Cohn's office. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Alco site and surrounding area in accordance with E & E health and safety guidelines. The reconnaissance inspection began at 10:00 a.m. on November 5, 1990, and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by Parker during the reconnaissance inspection.

Reconnaissance Inspection Observations. The Alco site is located in the southeast corner of Joliet, Illinois, at the northwest corner of the intersection of Linden Street and Rowell Avenue. The site is bordered on the north by an industrial area; however, some residences were observed along the northwest border of the site (see Figure 3-1 for site features). The site is bordered on the west by a residential area. The south side of the site is formed by Linden Street. Interstate 80 (I-80) runs parallel to and south of Linden Street. The east side of the site is formed by Rowell Avenue and a water-filled quarry. The entire site is surrounded by a fence with two locked gates. A private residence is located on the east side of the site. This residence is surrounded by a fence. The residents maintain site surveillance during nonbusiness hours (Cohn and Parker 1990). FIT believes that this does not constitute an adequate 24-hour surveillance program for the site.

There are two gates at the site. One is at the intersection of Rowell Avenue and Linden Street, the southeast corner of the site. A driveway extends from this corner to the on-site house and is used only by the residents. This entrance is locked when not in use.

The second gate is situated along the southern border of the site, off of Linden Street. The entrance at this location is used for business and is open during business hours. A scale used to weigh incoming trucks is located just north of the second gate.

A building and two trailers are located in the southwest corner of the site. The easternmost trailer serves as a business office for Alco Steel Service. Use of the second trailer and an adjacent building is not known.

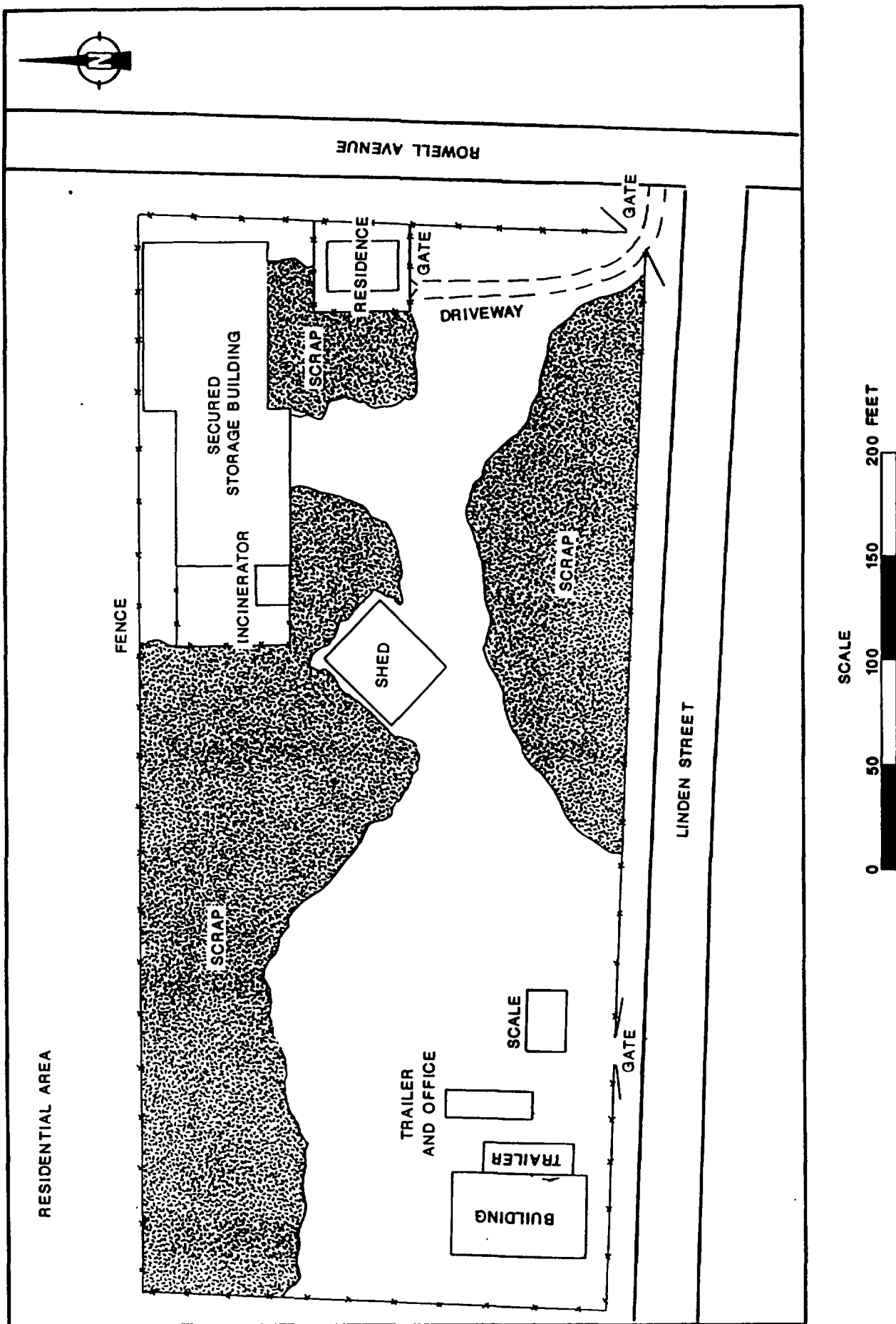


FIGURE 3-1 SITE FEATURES

The north-central and northwest portions of the site were covered with a large scrap metal pile. A locked storage building used to store old insulated wire is located in the northeast corner of the site. The UW incinerator is located next to the southwest corner of the storage building. A smaller scrap metal pile, as well as the on-site residence, are located on the east side of the site. A storage shed is located in the center of the site and in the middle of the large scrap metal pile that is spread across the northern half of the site.

Another large metal scrap pile was located in the southeast section of the site. The remaining site surface was covered with dirt and gravel.

Hickory Creek, which is located approximately 1/2 mile west of the site, flows into the Des Plaines River at a point approximately 2 miles downstream of the site.

FIT photographs from the SSI of the Alco site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. In addition, all soil samples were analyzed for polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) using Special Analytical Services (SAS) analysis.

On November 5, 1990, FIT collected four surface soil samples and one potential background surface soil sample. FIT also collected three residential well samples. Portions of the on-site soil samples were offered to the site representatives and were accepted.

Soil Sampling Procedures. On-site surface soil samples S1, S2, and S3 were collected from sampling locations immediately west of the inactive UW incinerator (see Figure 3-2 for soil sampling locations). FIT selected these sampling locations because FIT file information indicated that the incinerator had previously been cited for emissions violations. Therefore, it is possible that particulate matter consisting of TCL compounds, TAL analytes, and PCDDs/PCDFs may have been

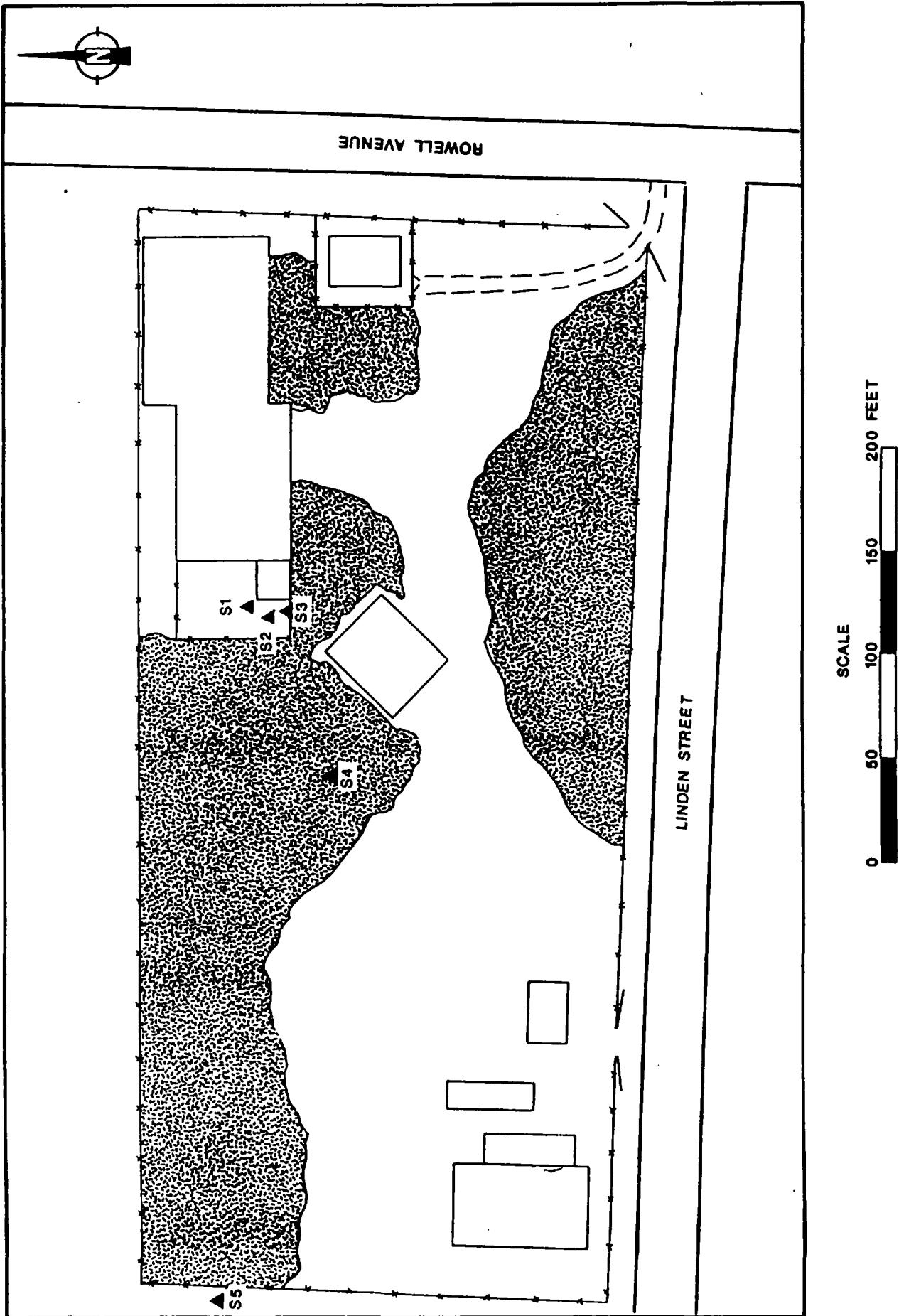


FIGURE 3-2 SOIL SAMPLING LOCATIONS

emitted from the incinerator and settled onto surface soils near the incinerator.

Surface soil sample S4 was collected near the large metal scrap pile in the north-central portion of the site. This sample was collected to determine whether TCL compounds or TAL analytes had migrated from the large scrap metal pile. FIT was also attempting to determine whether PCDDs/PCDFs, which may have been emitted from the incinerator, were present in this area.

Background surface soil sample S5 was collected from a grassy area immediately west of the Alco site. Sample S5 was collected to determine the chemical content of the soil in the immediate vicinity of the site.

All soil samples were collected with a hand trowel at approximate depths of 0 to 6 inches.

The sample portions collected for volatile organic analysis were transferred directly to sample bottles. The remaining sample portions were placed into an aluminum tray, homogenized, and then transferred to the appropriate samples bottles, using a stainless steel spoon or a hand trowel (E & E 1987).

The following decontamination procedures were followed in accordance with the dioxin soil sampling procedures outlined in the U.S. EPA-approved work plan. Sampling equipment was not reused after the collection of each sample. Subsequently, it was not necessary to follow standard E & E decontamination procedures for the sampling equipment. However, the sample bottles were decontaminated according to standard E & E decontamination procedures (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures for high concentration samples.

As directed by U.S. EPA, all soil samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

Groundwater Sampling Procedures. Two on-site well samples and one off-site residential well sample (designated as RW1, RW2, and RW3) were collected to determine whether TCL compounds or TAL analytes had migrated from the site to groundwater. Because of the low solubility of PCDDs/PCDFs, FIT determined that chemical analysis for these compounds in the groundwater samples was too cost prohibitive until their presence could be documented in on-site soils.

The groundwater sampling locations were selected because of their proximity to the site. Samples RW1 and RW2 were collected from wells located on-site (see Figure 3-3 for on-site groundwater sampling locations). Sample RW1 was collected from a well on the west side of the site that is used only for sanitary purposes in the office trailer. Sample RW2 was collected from a production well located under the storage building and near the UW incinerator. Downgradient sample RW3 was collected from a residence located approximately 1,000 feet southeast of the site (see Figure 3-4 for the off-site groundwater sampling location and Table 3-1 for addresses of groundwater sampling locations). The depths of wells RW1, RW2, and RW3 are not known.

All groundwater samples were obtained from outlets that bypassed water treatment systems and storage tanks. Water was allowed to discharge from the outlets for 15 minutes before samples were collected to ensure that the sample sources had been purged of standing water (E & E 1987). In accordance with U.S. EPA quality assurance/quality control requirements, a duplicate groundwater sample and a field blank sample were collected. The field blank sample was prepared from distilled water. The duplicate sample was collected at location RW1.

As directed by U.S. EPA, all groundwater samples were analyzed using the U.S. EPA CLP and the U.S. EPA Central Regional Laboratory (CRL) of Chicago, Illinois.

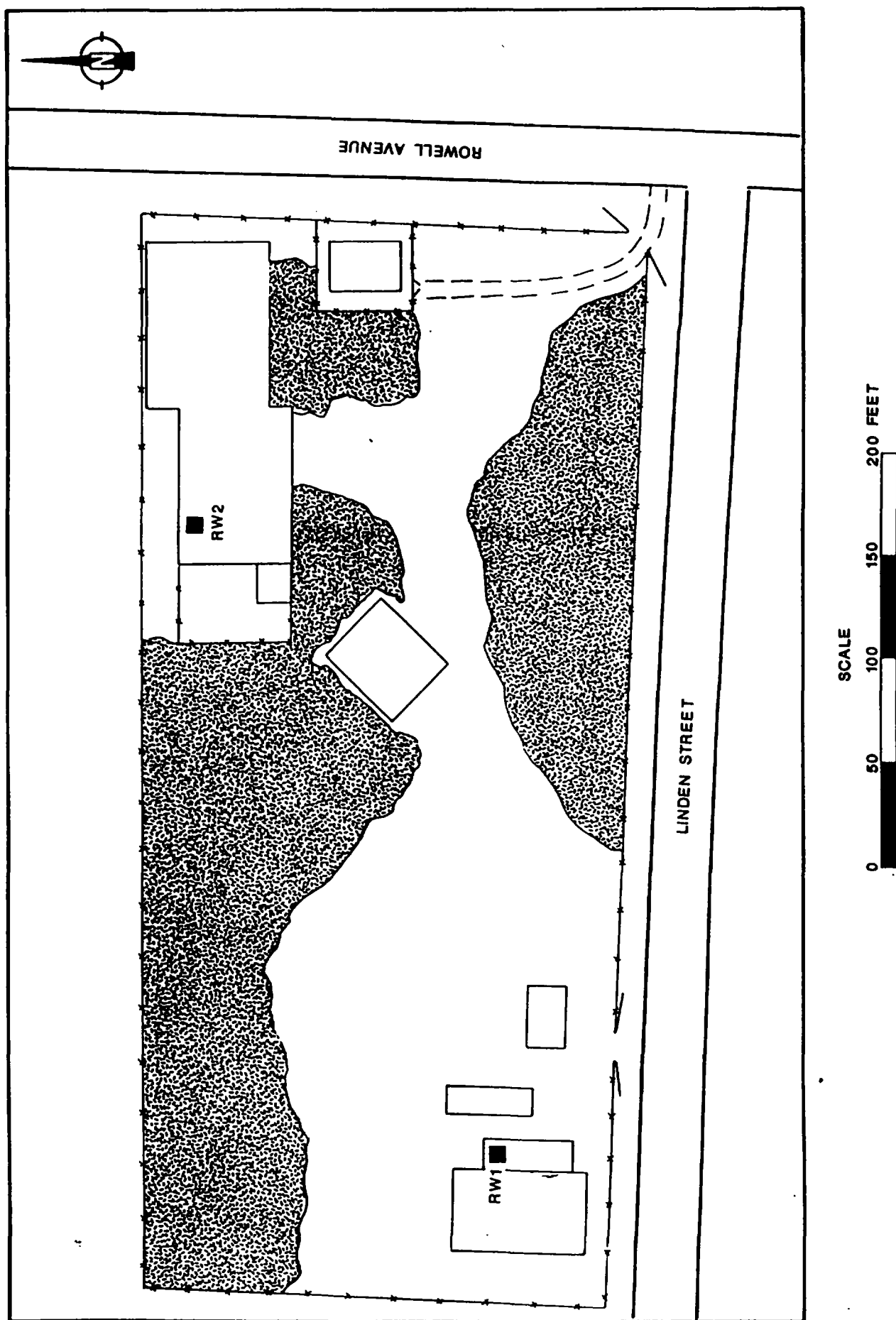


FIGURE 3-3 ON-SITE GROUNDWATER SAMPLING LOCATIONS



SOURCE: USGS, Joliet, IL Quadrangle, 7.5 Minute Series, 1962, photorevised 1973.

FIGURE 3-4 OFF-SITE GROUNDWATER SAMPLING LOCATIONS

Table 3-1

Sample	Address
RW1 (and Duplicate)	615 Linden Street Joliet, IL 60434
RW2	615 Linden Street Joliet, IL 60434
RW3	811 Fuller Street Joliet, IL 60434

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of soil and groundwater samples collected by FIT during the SSI of the Alco site. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanide. The soil samples were also analyzed for PCDDs/PCDFs. Complete chemical analysis results of FIT-collected soil and groundwater samples are provided in Tables 4-1 and 4-2.

Quantitation/detection limits used in the analysis of FIT-collected samples are provided in Appendix D.

The analytical data from the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U.S. EPA for validity; the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for usability. Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES FOR THE ALCO SITE SSI

Sample Collection Information and Parameters		S1	S2	Sample Number		S3	S4	S5
Date		11/5/90	11/5/90	11/5/90	11/5/90	11/5/90	11/5/90	11/5/90
Time		1140	1155	1210	1210	1210	1210	1500
SAS Number		5825E-01	5825E-02	5825E-03	5825E-04	5825E-05	5825E-06	5825E-07
CLP Organic Traffic Report Number		END81	END82	END83	END84	END85	END86	END87
CLP Inorganic Traffic Report Number		MEMH65	MEMH66	MEMH67	MEMH68	MEMH69	MEMH70	MEMH71
<u>Compound Detected</u> (values in $\mu\text{g/kg}$)								
<u>Volatile Organics</u>								
methylene chloride		—	—	20J	—	—	—	—
acetone		—	—	—	54J	—	—	—
trichloroethene		26J	41J	10J	20J	3J	—	—
benzene		—	—	—	0.8J	—	—	—
toluene		1J	2J	5J	4J	1J	—	—
xylenes (total)		—	—	—	6J	—	—	—
<u>Semivolatile Organics</u>								
naphthalene		41J	150J	62J	—	—	—	—
2-methylnaphthalene		42J	150J	93J	—	—	—	—
acenaphthylene		—	75J	—	—	—	—	—
acenaphthene		—	62J	—	540J	—	—	—
dibenzofuran		—	99J	—	210J	—	—	—
fluorene		—	—	—	580J	—	—	—
hexachlorobenzene		5,400	160J	95J	—	—	—	—
phenanthrene		160J	1,300	400J	5,800	150J	—	—
anthracene		—	190J	52J	1,900J	—	—	—
di-n-butylphthalate		25J	61J	70J	590J	36J	—	—
fluoranthene		130J	1,500	480J	14,000	260J	—	—
pyrene		120J	1,400J	550J	9,900	250J	—	—
butylbenzylphthalate		27J	360J	180J	9,500	25J	—	—

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number				
	S1	S2	S3	S4	S5
benzo[a]anthracene	74J	590J	190J	3,700J	120J
chrysene	170J	1,300	360J	4,400	190J
bis(2-ethylhexyl)phthalate	430J	440J	610J	8,400	120J
di-n-octylphthalate	56J	28J	49J	520J	10J
benzo[b]fluoranthene	240J	1,600	580J	4,500	290J
benzo[k]fluoranthene	280J	820	660J	3,100J	—
benzo[a]pyrene	160J	1,100	330J	3,500J	230J
indeno[1,2,3-cd]pyrene	—	200J	180J	2,200J	89J
dibenzo[a,h]anthracene	—	310J	—	920J	—
benzo[g,h,i]perylene	—	—	220J	2,200J	170J
Pesticides/PCBs					
alpha BHC	—	—	—	21	—
Aroclor 1242	—	—	—	6,800	—
Aroclor 1254	—	2,500	1,100	2,700	—
PCDDs/PCDFs					
(values in ng/kg)					
total 2,3,7,8-TCDD	16.4J	—	—	—	—
total tetra-CDD	103.8J	30J	—	—	—
total penta-CDD	516.5J	66.9J	339.3J	—	—
total hexa-CDD	897.8J	185J	2,086.7J	—	161.5J
total hepta-CDD	66,515J	14,533J	5,634J	473	1,916J
total octa-CDD	33,986J	15,798J	7,451J	1,956	2,132J
total 2,3,7,8-TCDF	31,635.9J	6,208.2J	—	—	—
total tetra-CDF	63,399.9J	15,481.8J	2,999.3J	—	—
total penta-CDF	210,043J	28,754.3J	13,910.7J	—	256J
total hexa-CDF	285,118.1J	46,082.4J	22,336.6J	—	585.1J
total hepta-CDF	253,791J	52,930J	14,817J	—	352J
total octa-CDF	442,249J	64,289J	10,557J	154	1,094J

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number				
	S1	S2	S3	S4	S5
<u>Analyte Detected</u>					
<u>(values in mg/kg)</u>					
aluminum	3,720	6,340	20,800	16,900	9,750
antimony	74NJ	133NJ	195NJ	78.1NJ	23NJ
arsenic	6.9NJ	11.2NJ	9.6NJ	18.7NJ	11.2NJ
barium	121	490	1,530	232	127
beryllium	0.23B	0.65B	0.36B	0.51B	1B
cadmium	9.2NJ	34.3NJ	19.6NJ	19NJ	1.8NJ
calcium	184,000	133,000	19,800	90,000	21,400
chromium	22.6	74.6	74	163	17.2
cobalt	16.6	30.1	17.2	50.3	11.1B
copper	3,000	18,100	229,000	2,310	45.9
iron	62,700EJ	97,600EJ	89,000EJ	105,000EJ	24,100EJ
lead	4,590EJ	10,300EJ	14,300EJ	823EJ	179EJ
magnesium	83,300	52,400	8,490	44,700	11,900
manganese	652EJ	1,840EJ	716EJ	1,280EJ	872EJ
mercury	0.29	0.88	1.3	5.9	0.25
nickel	32.7	110	323	418	19.7
potassium	804B	578B	664B	792B	1,570
selenium	—	1.3	6.5B	2.1	—
silver	0.94B	4.4	7.8	3.6	1.1B
sodium	269B	289B	425B	735B	254B
vanadium	4.8B	15.3	18.7	19.4	22.9
zinc	1,820EJ	3,300EJ	18,500EJ	2,370EJ	275EJ
cyanide	—	3.9	—	—	—

— Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
ANALYTE QUALIFIERS		
E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED GROUNDWATER SAMPLES FOR THE ALCO SITE SSI

Sample Collection Information and Parameters		Duplicate		Sample Number		Blank	
	RW1			RW2	RW3		
Date	11/5/90	11/5/90	11/5/90	11/5/90	11/5/90	11/5/90	
Time	1400	1400	1400	1215	1540	1425	
CRL Log Number	91FH30S85	91FH30D85	91FH30S86	91FH30S87	91FH30S85	91FH30S85	
CLP Inorganic Traffic Report Number	MEKM95	MEKM96	MEKM97	MEKM98	MEKM99	MEKM99	
Temperature (°C)	12	12	12	12	12	6	
Specific Conductivity (µmhos/cm)	900	900	900	1,350	1,350	2	
pH	7.5	7.5	6.7	6.5	6.5	5.8	
<u>Compound Detected</u>							
(values in µg/L)							
<u>Semivolatile Organics</u>							
di-n-butylphthalate	—	—	—	—	5	4	
bis(2-ethylhexyl)phthalate	—	—	—	—	—	40B	
<u>Analyte Detected</u>							
(values in µg/L)							
aluminum	—	—	—	90.2B	66.2B	—	
barium	17.1B	15.9B	59	28B	—	—	
cadmium	0.18BJ	0.19BJ	0.3BJ	0.16BJ	0.16BJ	0.16BJ	
calcium	14,600	14,500	89,300	181,000	—	—	
iron	331	295	4,450	92.4B	—	—	
lead	—	1.3B	1.8B	—	—	—	
magnesium	7,750	7,830	48,800	84,600	—	—	
manganese	4.8B	4.4B	787	50.5	—	—	
potassium	7,620	7,870	7,150	4,660J	974BJ	—	
sodium	193,000	198,000	33,800	50,000	199B	—	
thallium	2.3J	—	—	—	—	—	
zinc	164*J	141*J	27.4*J	—	—	—	

— Not detected.

Table 4-2 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
B	This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

5.1 INTRODUCTION

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

Groundwater samples were collected during the SSI of the Alco site in accordance with the U.S. EPA-approved work plan. However, the TCL compounds and TAL analytes detected in the groundwater samples cannot be attributed to the site.

Several TAL analytes were also detected above background in the on-site soil samples, including copper (229,000 mg/kg), lead (14,300EJ), and zinc (18,500EJ), all in sample S3 (see Table 4-1 for definitions and interpretations of the qualifiers).

5-1

ng/kg), 2,3,7,8-TCDF (31,635.9J ng/kg), penta-CDF (210,043J ng/kg), hexa-CDF (285,118.1 ng/kg), and octa-CDF (442,249J ng/kg), all in sample S1 (see Table 4-1 for definition and interpretation of the qualifier).

The TCL compounds, TAL analytes, and PCDDs/PCDFs detected above background in the on-site soil samples can be attributed to the Alco site, based upon the following information.

- TCL compounds, TAL analytes, and PCDDs/PCDFs were detected above background in the on-site soil samples.
- PAHs are known to be products of incomplete combustion in fly ash (Verschueren 1983) and could likely have originated from the on-site incinerators.
- Scrap metal, which contains TAL analytes, is processed on-site.
- PCDDs/PCDFs are known to be products of the incomplete combustion of municipal and industrial wastes (Taylor et al. 1983; Reggiani 1989; Lipsky 1989).

There is a potential for TCL compounds, TAL analytes, and PCDDs/PCDFs to migrate from the Alco site to groundwater in the vicinity of the site, based upon the following information.

- Three incinerators have operated on-site (Cohn 1987).
- There is no evidence of a liner under the site.

The potential for migration is also based on the geology of the area of the site. Information regarding the geology of the site area indicates the presence of three major water-bearing units (see Appendix E for well logs of the area of the site). The three aquifers, in descending order, are a sand and gravel Quaternary drift deposit, a Silurian dolomite bedrock formation, and the Cambrian-Ordovician aquifer system, a sequence of hydraulically connected Ordovician- and Cambrian-

age dolomite and sandstone formations (Woller and Sanderson 1983).

According to well logs of the area, the Quaternary drift aquifer and the Silurian dolomite bedrock aquifer appear to be hydraulically connected and together form the aquifer of concern (AOC). The Maquoketa Shale Formation, a known aquitard, lies between the AOC and the lower Cambrian-Ordovician aquifer system (Woller and Sanderson 1983).

The Quaternary drift deposit ranges in thickness from 5 to 100 feet, and is composed of interbedded till units, lacustrine clay deposits, and water-bearing sand and gravel units. The Quaternary drift varies in thickness from 2 to 83 feet. The Silurian dolomite bedrock formation varies in thickness from 100 to 150 feet (Hughes, Kraatz, and Landon 1966). The Cambrian-Ordovician aquifer system ranges in depth from 250 feet to more than 1,000 feet (Woller and Sanderson 1983).

Depth to groundwater in the vicinity of the site ranges from 15 to 50 feet (Woller and Sanderson 1983). Local groundwater flow appears to follow the surficial topography of the site area, which is to the south-southwest toward the Des Plaines River (United States Geological Survey [USGS] 1962). Regional groundwater flow is assumed to follow the structural geology, which dips in an easterly direction at 10 to 15 feet per mile (Hughes, Kraatz, and Landon 1966a). However, pumpage rates of nearby municipal well systems west of the site may have a significant influence on both local and regional groundwater flow paths.

The majority of the private residential wells within a 3-mile radius of the site draw from the AOC at depths ranging from 30 to 85 feet (see Appendix E). The city of Rockdale operates three municipal wells within a 3-mile radius of the site. Two of the three municipal wells draw from the AOC at depths ranging from 50 to 100 feet (Duffield 1988, 1988a). The third municipal well does not draw from the AOC. Water from all three wells is blended prior to distribution (Duffield 1988, 1988a).

The only other municipal wells within a 3-mile radius of the site are those operated by the city of Joliet. The Joliet wells draw from the confined Cambrian-Ordovician aquifer system, which is not part of the AOC (Woller and Sanderson 1983; Duffield 1988, 1988a). The closest well to the Alco site known to be used for drinking water purposes is a

private residential well approximately 1,000 feet southeast of the site (USGS 1962).

The communities of Ingalls Park and Ridgewood, both located within 2 miles of the site, obtain drinking water from private community wells. However, a small number of residents in both communities do obtain drinking water from the Joliet municipal water system (Strom 1991).

Water from an on-site production well was used by the residents living on-site for non-drinking water purposes. The residents obtained drinking water from a commercial supplier of bottled drinking water (Parker 1991).

The target population within a 3-mile radius of the site potentially affected by a release of TCL compounds, TAL analytes, or PCDDs/PCDFs to groundwater in the vicinity of the site is approximately 7,989 persons. This population includes the approximately 1,913 persons residing within Rockdale who are served by the Rockdale municipal water system, and the approximately 6,076 persons living within a 3-mile radius of the site who are using private wells.

The figure of 6,076 persons using private wells was calculated by using USGS topographic maps of the area (USGS 1953, 1954, 1962, 1963) to count the number of houses located outside of the municipal water system borders and within a 3-mile radius of the site. This total (1,979) was then multiplied by the persons-per-household value of 3.07 for Will County (U.S. Bureau of the Census 1982).

5.3 SURFACE WATER

In accordance with the U.S. EPA-approved work plan, no surface water samples were collected because no overland migration routes were observed prior to the SSI (USGS 1962).

The nearest surface water body in the area of the site is Hickory Creek, located 1/2 mile west of the site (USGS 1962, 1962a). There is no overland migration pathway from the site to Hickory Creek because the intervening terrain includes developed roads.

Surface water in the site area is not used as a source of drinking water in the vicinity of the site; therefore, there is no surface water target population (Duffield 1988, 1988a). Only canoeing and fishing take place in the Des Plaines River (McGinty 1990).

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the Alco site. During the reconnaissance inspection, FIT site-entry instruments (OVA, hydrogen cyanide monitor, and explosimeter) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does exist for TCL compounds, TAL analytes, and PCDDs/PCDFs to migrate from the site via windblown particulates. This potential is based on the following information.

- TCL compounds, TAL analytes, and PCDDs/PCDFs were detected in on-site surface soil samples.
- The site was not vegetated and was covered with dirt and gravel.

The population within a 4-mile radius of the site potentially affected by a release of TCL compounds, TAL analytes, and PCDDs/PCDFs at the site is approximately 95,960 persons. This population was calculated by using a planimeter to determine the area of municipalities located within a 4-mile radius of the site (U.S. Bureau of the Census 1982). The population outside of the municipalities but within a 4-mile radius was calculated by counting houses on USGS topographic maps (USGS 1954, 1962, 1962a, 1963) and multiplying this number by a persons-per-household value of 3.07 (U.S. Bureau of Census 1982). The total population of 95,960 persons was derived by adding the two population counts.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT and a telephone conversation with George Plese of the Joliet Fire Department (Plese 1989), no documentation exists of an incident of fire or explosion at the site. According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the Alco site have been documented.

A potential exists for the public to come into direct contact with TCL compounds, TAL analytes, and PCDDs/PCDFs detected on-site because the site does not have a 24-hour surveillance system in place. FIT also believes there is a potential for the residents living on-site to come into direct contact with TCL compounds, TAL analytes, and PCDDs/PCDFs that have been detected on-site.

The population within a 1-mile radius of the site potentially affected by direct contact with TCL compounds, TAL analytes, and PCDDs/PCDFs detected at the site is approximately 20,689 persons. This population was calculated by using a planimeter to determine the area of municipalities located within a 1-mile radius of the site (U.S. Bureau of the Census 1982). The population outside of the municipalities but within a 1-mile radius of the site was calculated by counting houses on a USGS topographic map (USGS 1953, 1962) and multiplying this number by a persons-per-household value of 3.07 (U.S. Bureau of Census 1982). The total population of 20,689 persons was derived by adding the two population counts. FIT observed approximately six employees working at the Alco site.

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7018:3

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

**Some images in this document may be illegible or unavailable in SDMS.
Please see reason(s) indicated below:**

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Appendix A – Site 4-Mile Radius Map

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APPENDIX B

U.S. EPA FORM 2070-13



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
- SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL DC95552522

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) <u>Alco Steel Service</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <u>525 Rowell</u>			
03 CITY <u>Joliet</u>	04 STATE <u>IL</u>	05 ZIP CODE <u>60434</u>	06 COUNTY <u>Will</u>	07 COUNTY CODE <u>197</u>	08 CONG DIST <u>17</u>
09 COORDINATES LATITUDE <u>41° 22' 32.0"</u> LONGITUDE <u>88° 23' 32.0"</u>		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

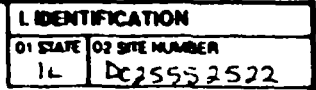
01 DATE OF INSPECTION <u>11.5.90</u> MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION <u>1944</u> <u>present</u> BEGINNING YEAR ENDING YEAR
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR <u>Ecology & Environment, Inc.</u> <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER		

05 CHIEF INSPECTOR <u>Joseph I. Hershman</u>	06 TITLE <u>Engineering physicist</u>	07 ORGANIZATION <u>E&E</u>	08 TELEPHONE NO. <u>(312) 663-9415</u>
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
<u>Cliff Florczak</u>	<u>Chemist</u>	<u>E&E</u>	<u>(312) 663-9415</u>
<u>Kelly Maley</u>	<u>Zoologist</u>	<u>E&E</u>	<u>(312) 663-9415</u>
<u>Mike Phillips</u>	<u>Geologist</u>	<u>E&E</u>	<u>(312) 663-9415</u>
<u>Karen Sadler</u>	<u>Biologist</u>	<u>E&E</u>	<u>(312) 663-9415</u>
<u>Debby Fallick / Mary Tierney</u>	<u>Biologist / Biologist</u>	<u>E&E</u>	<u>(312) 663-9415</u>
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
<u>Albert Cohn</u>	<u>President; owner</u>	<u>525 Rowell Joliet IL 60434</u>	<u>(815) 723-0661</u>
<u>John L. Parker</u>	<u>Attorney</u>	<u>39 S. LaSalle Chicago IL 60603</u>	<u>(312) 263-6560</u>
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input type="checkbox"/> PERMISSION <input checked="" type="checkbox"/> WARRANT	18 TIME OF INSPECTION <u>10:00 am</u>	19 WEATHER CONDITIONS <u>Cold - 32°F - rain/hail/snow</u>
---	--	--

IV. INFORMATION AVAILABLE FROM

01 CONTACT <u>Richard L. Finley</u>	02 OF (Agency/Department) <u>Illinois Environmental Protection Agency</u>	03 TELEPHONE NO. <u>(708) 345-9780</u>
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM <u>Joseph Hershman</u>	05 AGENCY <u>USEPA</u>	06 ORGANIZATION <u>E&E</u>
	07 TELEPHONE NO. <u>(312) 663-9415</u>	08 DATE <u>4.30.91</u> MONTH DAY YEAR



☐ I HIGHLY VOLATILE
☐ J EXPLOSIVE
☐ K REACTIVE
☐ L INCOMPATIBLE
☐ M NOT APPLICABLE

EPA FORM 2070-1307-01)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D025552522

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 7,989 04 NARRATIVE DESCRIPTION

See Section 5-2 in narrative

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

See Section 5-3 in narrative

01 ☒ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 95,960 04 NARRATIVE DESCRIPTION

See Section 5-4 in narrative

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

See Section 5-5 in narrative

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 20,689 04 NARRATIVE DESCRIPTION

See Section 5-6 in narrative

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE 11/5/90) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: ~8 04 NARRATIVE DESCRIPTION
(Acres)

See Section 4 and 5 in narrative

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 7,989 04 NARRATIVE DESCRIPTION

See Section 5-2 in narrative

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: ~6 04 NARRATIVE DESCRIPTION

See Section 5-6 in narrative

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 95,960 04 NARRATIVE DESCRIPTION

See Section 5 in narrative



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
IL D025552522

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Although no damage to flora was reported or observed a potential exists for damage to flora by absorption of TEL compounds, TAL analytes or dioxins through root systems of the onsite residence.

01 ☒ K. DAMAGE TO FAUNA 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

Although no damage to fauna was reported or observed a potential exists for fauna of the on-site residence to become damaged by consuming contaminated flora or direct contact.

01 ☒ L. CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

The Potential exist for food chain contamination through consumption of contaminated flora or fauna.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES 02 ☒ OBSERVED (DATE 11/5/90) ☐ POTENTIAL ☐ ALLEGED
(Scale: Punctured Standing Liquid, Leaking Drums)
03 POPULATION POTENTIALLY AFFECTED: 95960 04 NARRATIVE DESCRIPTION

No engineered containment systems.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

PCDD's/PCDF's deposition onto off-site properties via incinerator emissions.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None documented or observed

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None documented or observed

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: 95960

IV. COMMENTS

None

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E&E/FIT files, Region I, Chicago
E&E/FIT site inspection, 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D085552522

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A NPDES				
<input type="checkbox"/> B UC				
<input type="checkbox"/> C AIR				
<input type="checkbox"/> D RCRA				
<input type="checkbox"/> E RCRA INTERIM STATUS				
<input type="checkbox"/> F SPOC PLAN				
<input checked="" type="checkbox"/> G STATE (Specify)	1975-65-09	6/4/76	Unknown	Operating Permit for incineration
<input type="checkbox"/> H LOCAL (Specify)				
<input checked="" type="checkbox"/> I OTHER (Specify) state	Unknown	Unknown	Unknown	Supplemental Permits
<input type="checkbox"/> J NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A SURFACE IMPOUNDMENT			<input checked="" type="checkbox"/> A INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input checked="" type="checkbox"/> B PILES	Unknown		<input type="checkbox"/> B. UNDERGROUND INJECTION	5
<input type="checkbox"/> C DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input checked="" type="checkbox"/> G LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I OTHER (Specify)				06 AREA OF SITE
				8 (Acres)

07 COMMENTS

The Site is used to store large piles of Scrap metal
Incinerators operated on the site in the past.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None observed

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO * Site is accessible to inhabitants of the on-site residence, although the site is fenced a 24-hr. surveillance is not adequately maintained.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

E&E/FIT site inspection, 1990
E&E/FIT files, Region I, Chicago



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL DC25552522

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A. ☐ B. ☒
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☐ B. ☐ C. ☒
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. ~ 2 3/4 (mi)
B. 1000 ft (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water source available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available) ☐ D. NOT USED, UNUSABLE

02 POPULATION SERVED BY GROUND WATER 7989

03 DISTANCE TO NEAREST DRINKING WATER WELL 1000 ft (mi)

04 DEPTH TO GROUNDWATER

15 (ft)

05 DIRECTION OF GROUNDWATER FLOW

Local Flow to South-Southwest
Regional Flow to East

06 DEPTH TO AQUIFER OF CONCERN

15 (ft)

07 POTENTIAL YIELD OF AQUIFER

Unknown (gpm)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

See Section 5.2 and Appendix E

10 RECHARGE AREA

☒ YES
☐ NO

COMMENTS recharge through rainwater
Percolation

11 DISCHARGE AREA

☒ YES
☐ NO

COMMENTS Local flow
Discharge to Des Plaines River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
None	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE
A. 20,689 B. 42,184 C. 67,753
NO. OF PERSONS NO. OF PERSONS NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

on-site

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

Unknown

04 DISTANCE TO NEAREST OFF-SITE BUILDING

adjacent

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The site is located on the south-east corner of Joliet II a densely populated city. Areas south and East of the site are also urban but less densely populated than Joliet.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL DC25552522

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-8} - 10^{-9}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-8} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-8} - 10^{-6}$ cm/sec) ☒ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

3-83 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

Unknown (ft)

05 SOIL pH

Unknown

06 NET PRECIPITATION

3 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE SITE SLOPE

< 3 %

DIRECTION OF SITE SLOPE

Southwest

TERRAIN AVERAGE SLOPE

< 3 %

09 FLOOD POTENTIAL

SITE IS IN > 500 YEAR FLOODPLAIN

10

☒ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. > 3 (mi)

OTHER

B. > 3 (mi)

12 DISTANCE TO CRITICAL HABITAT or endangered species

> 3 (mi)

ENDANGERED SPECIES NA

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. adjacent (mi)

RESIDENTIAL AREAS NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. on-site (mi)

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

C. NA (mi) D. NA (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See appendix A for details

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

EFE/FIT files, Region I, Chicago

EFE/FIT Site inspection, 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE OF SITE NUMBER

IL D02552522

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	3	Inorganic: Metals, CRL Chicago IL, Cyanide Swab Organic: CRL Chicago IL	Presently Available
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	5	Inorganics, Organic: Swab Broken Arrow, OK Dioxins, AATS Broken Arrow, OK	Presently Available
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Orgo - Vapor Analyzer	No Readings above background
O ₂ Exposuremeter	Readings same as background
Cyanide detector	No Readings above background
Radiation Monitor	No Readings above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology & Environment, Inc. (Name of organization or individual)
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology & Environment

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Physical description of soil samples
pH, Conductivity, Temperature of water samples.
Refer to table 4.2 in report

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E&E / FIT files, Region I, Chicago
E&E / FIT Site Inspection, 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D025552522

II. CURRENT OWNER(S)

01 NAME Albert Cohn				02 D+B NUMBER				08 NAME NA				09 D+B NUMBER											
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 615 Linden				04 SIC CODE				10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE											
06 CITY Joliet				08 STATE IL				07 ZIP CODE 60434				12 CITY				13 STATE				14 ZIP CODE			
01 NAME				02 D+B NUMBER				08 NAME				09 D+B NUMBER											
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE				10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE											
06 CITY				08 STATE				07 ZIP CODE				12 CITY				13 STATE				14 ZIP CODE			
01 NAME				02 D+B NUMBER				08 NAME				09 D+B NUMBER											
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE				10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE											
06 CITY				08 STATE				07 ZIP CODE				12 CITY				13 STATE				14 ZIP CODE			
01 NAME				02 D+B NUMBER				08 NAME				09 D+B NUMBER											
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE				10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE											
06 CITY				08 STATE				07 ZIP CODE				12 CITY				13 STATE				14 ZIP CODE			

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME McKean's Auto Wrecking				02 D+B NUMBER				01 NAME				02 D+B NUMBER											
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Same as above				04 SIC CODE				03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE											
06 CITY				08 STATE				07 ZIP CODE				06 CITY				08 STATE				07 ZIP CODE			
01 NAME				02 D+B NUMBER				01 NAME				02 D+B NUMBER											
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE				03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE											
06 CITY				08 STATE				07 ZIP CODE				06 CITY				08 STATE				07 ZIP CODE			
01 NAME				02 D+B NUMBER				01 NAME				02 D+B NUMBER											
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE				03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE											
06 CITY				08 STATE				07 ZIP CODE				06 CITY				08 STATE				07 ZIP CODE			

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

E/E / FIT Site Inspection, 1990
E/E / FIT, ^{AKS} Region V, Chicago



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D025552522

II. CURRENT OPERATOR <small>(Provide if different from owner)</small>				OPERATOR'S PARENT COMPANY <small>(if applicable)</small>			
01 NAME Ako Steel Service		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small> 65 Linden		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>		13 SIC CODE	
05 CITY Joliet		06 STATE IL	07 ZIP CODE 60434	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 19-4- Present		09 NAME OF OWNER Albert Cohn					
III. PREVIOUS OPERATOR(S) <small>(List most recent first, provide only if different from current)</small>				PREVIOUS OPERATORS' PARENT COMPANIES <small>(if applicable)</small>			
01 NAME McKean Auto Wrecking, Inc.		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small> Same as above		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
IV. SOURCES OF INFORMATION <small>(Cite specific references, e.g., state files, sample analysis, reports)</small>							
E/E/FIT files, Region V, Chicago E/E/FIT Site Inspection, 1990							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL DC25852522

II. ON-SITE GENERATOR

01 NAME NA	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME Unknown	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE	05 CITY	06 STATE
07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE	05 CITY	06 STATE
07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME Unknown	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE	05 CITY	06 STATE
07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE	05 CITY	06 STATE
07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EFE/FIT files, Region V, Chicago
EFE/FIT Site Inspection, 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL

DC25552522

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ O. EMERGENCY DRAIN/SURFACE WATER DIVERSION
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL DC25552522

II. PAST RESPONSE ACTIVITIES (Continued)

01 <input type="checkbox"/> R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> S. CAPPING/COVERING 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> X. FIRE CONTROL 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Y. LEACHATE TREATMENT 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Z. AREA EVACUATED 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	NA	02 DATE _____	03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Ere/FIT files, Region I, Chicago
Ere/FIT Site Inspection, 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D025552522

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

None

III. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

Efe/FIT files, Region I, Chicago
Efe/FIT site Inspection, 1990

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

These 8 pages are the original copies.

SITE NAME: ALCO STEEL SERV.

PAGE 1 OF 8

U.S. EPA ID: ILD025552522 TDD:

PAN: FIL0422SD

DATE: 11/5/90

TIME: 11:55am

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

PHOTOGRAPHED BY: JOSEPH HERSHMAN

SAMPLE ID (if applicable): 52



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE 52

DATE: _____

TIME: _____

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

PHOTOGRAPHED BY:

SAMPLE ID (if applicable):

DESCRIPTION: ATTORNEY WOULD NOT AUTHORIZE FIT TO TAKE PERSPECTIVE VIEW PHOTO OF 52 .

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: ALCO STEEL SERV

PAGE 2 OF 8

U.S. EPA ID: ILD025552522 TDD:

PAN: FILO422SD

DATE: 11/5/90

TIME: 11:40 am

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS:

PHOTOGRAPHED BY:
JOSEPH HERSHMAN

SAMPLE ID
(if applicable):
S1



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S1

DATE:

TIME:

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS:

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):

DESCRIPTION: ATTORNEY WOULD NOT AUTHORIZE FIT TO TAKE PERSPECTIVE
VIEW PHOTO OF S1

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: ALCO STEEL SERVICE

PAGE 3 OF 8

U.S. EPA ID: ILD025552522

TDD:

PAN: F1L0422SD

DATE: 11/5/90

TIME:

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS:

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
S3

DESCRIPTION: PHOTOGRAPH OF S3 DID NOT DEVELOP

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: ALCO STEEL SERVICE

PAGE 4 OF 8

U.S. EPA ID: ILD025552522 TDD:

PAN: FILO422SD

DATE: 11/5/90

TIME: 12:10

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS:

PHOTOGRAPHED BY:
JOSEPH HERSHMAN

SAMPLE ID
(if applicable):
S4



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S4

DATE:

TIME:

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS:

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):

DESCRIPTION: ATTORNEY WOULD NOT AUTHORIZE FIT TO TAKE PERSPECTIVE
VIEW PHOTO OF S4 .

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: ALCO STEEL SERVICE

PAGE 5 OF 8

U.S. EPA ID: ILDO25552522 TDD:

PAN: FILD422SD

DATE: _____

TIME: _____

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS:

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
S5

DESCRIPTION: PHOTOGRAPH OF S5 DID NOT DEVELOP

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: ALCO STEEL SERVICE

PAGE 6 OF 8

U.S. EPA ID: 7LDO25552527 TDD:

PAN: F1L0422SD

DATE: _____

TIME: _____

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS: ;

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
RW1

DESCRIPTION: PHOTOGRAPH OF RESIDENTIAL WELL 1^(RW1) SAMPLE LOCATION

DID NOT DEVELOP .

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: ALCO STEEL SERVICE

PAGE 7 OF 8

U.S. EPA ID: ILD025552522 TDD:

PAN: FILO422SD

DATE: _____

TIME: _____

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS: ,

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):

DESCRIPTION: PHOTOGRAPH OF RESIDENTIAL WELL 2 (RW2) SAMPLE LOCATION

DID NOT DEVELOP.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: ALCO STEEL SERVICE

PAGE 8 OF 8

U.S. EPA ID: ILD025552522 TDD: _____

PAN: FILO422SD

DATE: > 11/5/90

TIME: > _____

DIRECTION OF
PHOTOGRAPH: > _____

WEATHER
CONDITIONS: > _____

PHOTOGRAPHED BY: > _____

SAMPLE ID
(if applicable): > _____

DESCRIPTION: > CLOSE-UP

> VIEW OF RESIDENTIAL

> WELL SAMPLE 3 (RW3) DID

> NOT DEVELOP.

> _____

> _____

DATE: > 11/5/90

TIME: > 1

DIRECTION OF
PHOTOGRAPH:
> _____

WEATHER
CONDITIONS:
> _____

> _____

PHOTOGRAPHED BY:
> JOSEPH HERSHMAN

SAMPLE ID
(if applicable):
> RW3



DESCRIPTION: > PERSPECTIVE VIEW PHOTO OF RESIDENTIAL WELL

> SAMPLE 3 (RW3) LOCATION.

APPENDIX D

**U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS**

ADDENDUM A

**ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS**

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

TABLE A (Cont.)
CONTRACT LABORATORY PROGRAM
HAZARDOUS SUBSTANCE LIST (HSL)
INORGANIC DETECTION LIMITS

COMPOUND	PROCEDURE	DETECTION LIMITS	
		WATER	SOIL SEDIMENT SLUDGE
ALUMINUM	ICP	200 ug/L	40 mg/KG
ANTIMONY	FURNACE	60	2.4
ARSENIC	FURNACE	10	2
BARIUM	ICP	200	40
BERYLLIUM	ICP	5	1
CADMIUM	ICP	5	1
CALCIUM	ICP	5000	1000
CHROMIUM	ICP	10	2
COBALT	ICP	50	10
COPPER	ICP	25	5
IRON	ICP	100	20
LEAD	FURNACE	5	1
MAGNESIUM	ICP	5000	1000
MANGANESE	ICP	15	3
MERCURY	COLD VAPOR	0.2	0.008
NICKEL	ICP	40	8
POTASSIUM	ICP	5000	1000
SELENIUM	FURNACE	5	1
SILVER	ICP	10	2
SODIUM	ICP	5000	1000
THALLIUM	FURNACE	10	2
TIN	ICP	40	8
VANADIUM	ICP	50	10
ZINC	ICP	20	4
CYANIDE	COLOR	10	2

ADDENDUM B

CENTRAL REGIONAL LABORATORY
DETECTION LIMITS

TABLE B
CENTRAL REGIONAL LABORATORY
VOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER
Benzene	71-43-2	1.5 ug/L
Bromodichloromethane	75-27-4	1.5
Bromoform	75-25-2	1.5
Bromomethane	74-83-9	10
Carbon tetrachloride	56-23-5	1.5
Chlorobenzene	108-90-7	1.5
Chloroethane	75-00-3	1.5
2-Chloroethyl vinyl ether	110-75-8	1.5
Chloroform	67-66-3	1.5
Chloromethane	74-87-3	10
Dibromochloromethane	124-48-1	1.5
1,1-dichloroethane	75-34-3	1.5
1,2-dichloroethane	107-06-2	1.5
1,1-dichloroethene	75-35-4	1.5
Total-1,2-dichloroethene	540-59-0	1.5
1,2-dichloropropane	78-87-5	1.5
cis-1,3-dichloropropene	10061-01-5	2
trans-1,3-dichloropropene	10061-02-6	1
Ethyl benzene	100-41-4	1.5
Methylene chloride*	75-09-2	1
1,1,2,2-tetrachloroethane	79-34-5	1.5
Tetrachloroethene	127-18-4	1.5
Toluene*	108-88-3	1.5
1,1,1-trichloroethane	71-55-6	1.5
1,1,2-trichloroethane	79-00-5	1.5
Trichloroethene	79-01-6	1.5
Vinyl chloride	75-01-4	10
Acrolein	107-02-8	100
Acetone*	67-64-1	75
Acrylonitrile	107-13-1	50
Carbon disulfide	75-15-0	3
2-butanone	78-93-3	(50)
Vinyl acetate	108-05-4	15
4-Methyl-2-Pentanone	108-10-1	(3)
2-Hexanone	519-78-6	(50)
Styrene	100-42-5	1
m-xylene	108-38-3	2
o-xylene**	95-47-6	
p-xylene**	106-42-3	2.5**
Total Xylene	1330-02-7	

* Common Laboratory Solvents.

Blank Limit is SX Method Detection Limit.

() Values in parentheses are estimates.

Actual values are being determined at this time.

** The o-xylene and p-xylene are reported as a total of the two.

TABLE B (cont.)
CRL
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK LIMIT
Aniline	62-53-3	1.5 ug/L	3 ug/L
Bis(2-chloroethyl)ether	111-44-4	1.5	3
Phenol	108-95-2	2	4
2-Chlorophenol	95-57-8	2	4
1,3-Dichlorobenzene	541-73-1	2	4
1,4-Dichlorobenzene	106-46-7	2	4
1,2-Dichlorobenzene	95-50-1	2.5	5
Benzyl alcohol	100-51-6	2	4
Bis(2-chloroisopropyl) ether	39638-32-9	2.5	5
2-Methylphenol	95-48-7	1	2
Hexachloroethane	67-72-1	2	4
N-nitrosodipropylamine	621-64-7	1.5	3
Nitrobenzene	98-95-3	2.5	5
4-Methylphenol	106-44-5	1	2
Isophorone	78-59-1	2.5	5
2-Nitrophenol	88-75-5	2	4
2,4-Dimethylphenol	105-67-9	2	4
Bis(2-chloroethoxy)methane	111-91-1	2.5	5
2,4-Dichlorophenol	120-83-2	2	4
1,2,4-Trichlorobenzene	120-82-1	2	4
Naphthalene	91-20-3	2	4
4-Chloroaniline	106-47-8	2	4
Hexachlorobutadiene	87-68-3	2.5	5
Benzoic acid	65-85-0	(30)	(60)
2-Methylnaphthalene	91-57-6	2	4
4-Chloro-3-methylphenol	59-50-7	1.5	3
Hexachlorocyclopentadiene	77-47-4	2	4
2,4,6-Trichlorophenol	88-06-2	1.5	3
2,4,5-Trichlorophenol	95-95-4	1.5	3
2-Chloronaphthalene	91-58-7	1.5	3
Acenaphthylene	208-96-8	1.5	3
Dimethyl phthalate	131-11-3	1.5	3
2,6-Dinitrotoluene	606-20-2	1	2
Acenaphthene	83-32-9	1.5	3
3-Nitroaniline	99-09-2	2.5	5
Dibenzofuran	132-64-9	1	2
2,4-Dinitrophenol	51-28-5	(15)	(30)
2,4-Dinitrotoluene	121-14-2	1	2
cont.			

TABLE B (Cont.)
CRL
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK (a) LIMIT
Fluorene	86-73-7	1 ug/L	2 ug/L
4-Nitrophenol	100-02-7	1.5	3
4-Chlorophenyl phenyl ether	7005-72-3	1	2
Diethylphthalate	84-66-2	1	2
4,6-dinitro-2-methylphenol	534-52-1	(15)	(30)
1,2-Diphenylhydrazine	122-66-7	1	2
n-Nitrosodiphenylamine *	86-30-6		
Diphenylamine *	122-39-4	1.5	3
4-Nitroaniline	100-01-6	3	6
4-Bromophenyl-phenylether	101-55-3	1.5	3
Hexachlorobenzene	118-74-1	1.5	3
Pentachlorophenol	87-86-5	2	4
Phenanthrene	85-01-8	1	2
Anthracene	120-12-7	2.5	5
Di-n-butylphthalate	84-74-2	2	4
Fluoranthene	206-44-0	1.5	3
Pyrene	129-00-0	1.5	3
Butylbenzylphthalate	85-68-7	3.5	7
Chrysene **	218-01-9		
Benzo(a)anthracene **	56-55-3	1.5	3
bis(2-Ethylhexyl)phthalate	117-81-7	1	2
Di-n-octyl phthalate	117-84-0	1.5	3
Benzo(b)fluoranthene ***	205-99-2		
Benzo(k)fluoranthene ***	207-08-9	1.5	3
Benzo(a)pyrene	50-32-8	2	4
Indeno(1,2,3-cd)pyrene	193-39-5	3.5	7
Dibenzo(a,h)anthracene	53-70-3	2.5	5
Benzo(g,h,i)perylene	191-24-2	4	8
2-Nitroaniline	88-74-4	1	2

* These two parameters are reported as a total.

** These two parameters are reported as a total.

*** These two parameters are reported as a total.

(a) If the blank limit is exceeded, the sample is reextracted and rerun.

() Values in parentheses are estimates.

The actual values are being determined at this time.

Notes: Limits are for reagent water.

TABLE B (Cont.)
CRL
PESTICIDE AND PCB DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aldrin	309-00-2	0.005 ug/L
alpha BHC	319-84-6	(0.010)
beta BHC	319-85-7	(0.005)
delta BHC	319-86-8	(0.005)
gamma BHC (Lindane)	58-89-9	0.005
Chlordane	57-74-8	(0.020)
4,4'-DDD	72-54-8	(0.020)
4,4'-DDE	72-55-9	(0.005)
4,4'-DDT	50-29-3	0.020
Dieldrin	60-57-1	0.010
Endosulfan I	959-98-8	0.010
Endosulfan II	33213-65-9	0.010
Endosulfan sulfate	1031-07-8	(0.10)
Endrin	72-20-8	0.010
Endrin aldehyde	7421-93-4	(0.030)
Endrin ketone	53494-70-5	(0.030)
Heptachlor	76-44-8	0.030
Heptachlor epoxide	1024-57-3	0.005
4,4'-Methoxychlor	72-43-5	0.020
Toxaphene	8001-35-2	(0.25)
PCB-1242	53469-21-9	(0.10)
PCB-1248	12672-29-6	(0.10)
PCB-1254	11097-69-1	(0.10)
PCB-1260	11096-82-5	(0.10)

() Values in parentheses are estimates.
Actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE B (Cont.)
CRL
INORGANIC DETECTION LIMITS

COMPOUND	PROCEDURE	DETECTION LIMITS	RANGE	UNITS
Aluminum	ICP	100	80 to 1,000,000	ug/L
Antimony	Furnace	2	2 to 30	ug/L
Arsenic	Furnace	2	2 to 30	ug/L
Barium	ICP	50	6 to 20,000	ug/L
Beryllium	ICP	5	1 to 20,000	ug/L
Boron	ICP	80	80 to 20,000	ug/L
Cadmium	ICP	10	10 to 20,000	ug/L
Cadmium	Furnace	0.2	0.2 to 2	ug/L
calcium	ICP	1000	0.5 to 1,000	ug/L
Chromium	ICP	10	8 to 20,000	ug/L
Cobalt	ICP	10	6 to 20,000	ug/L
Copper	ICP	10	6 to 20,000	ug/L
iron	ICP	100	80 to 1,000,000	ug/L
Lead	Furnace	2	2 to 30	ug/L
Lead	ICP	70	70 to 20,000	ug/L
Lithium	ICP	10	10 to 20,000	ug/L
Magnesium	ICP	1000	0.1 to 200	ug/L
Manganese	ICP	10	5 to 20,000	ug/L
Mercury	Cold vapor	0.2	0.1 to 2	ug/L
Molybdenum	ICP	15	15 to 20,000	ug/L
Nickel	ICP	20	15 to 20,000	ug/L
Potassium	ICP	2000	5 to 1,000	ug/L
Selenium	Furnace	2	2 to 30	ug/L
Silver	ICP	5	6 to 10,000	ug/L
Sodium	ICP	1000	1 to 1,000	ug/L
Strontium	ICP	10	10 to 20,000	ug/L
Sulfide	Titration	1	< 1	ug/L
Sulfide	Color	0.05	< 1	ug/L
Thallium	Furnace	2	2 to 30	ug/L
Titanium	ICP	25	25 to 20,000	ug/L
Tin	ICP	40	40 to 20,000	ug/L
Vanadium	ICP	10	5 to 20,000	ug/L
Yttrium	ICP	5	5 to 20,000	ug/L
Zinc	ICP	20	40 to 1,000,000	ug/L
Cyanide	AA	5.0	8 to 200	ug/L

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See Inorganic Routine Analytical Services for related CAS #.

ADDENDUM C

**SPECIAL ANALYTICAL SERVICES
DETECTION LIMITS**

DIOXIN DETECTION LIMITS

Table C

SAS DIOXIN DETECTION LIMITS

Parameter	Detection Limit
2378 TCDD/TCDF	5 (ng/kg) ppt
Total TCDD/TCDF	5
Total Penta TCDD/TCDF	20
Total Hexa TCDD/TCDF	20
Total Hepta TCDD/TCDF	20
OCDD/OCDF	50

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

WELL LOG #1

PEW
G-4
V-4

LOG OF WATER WELL

Property owner CUS. ROUSONELOS Well No. _____Drilled by T. H. SMITH Year 1946

Formations passed through	Thick- ness	Depth of Bottom
soil	2	2
yellow clay	8	10
clay & gravel	37	47
sand & gravel	36	83
limestone	53	136
shale	4	140
limestone	95	235

Finished in limestone [Continued on back if necessary] at 95 to 235 ft.Cased with 8 inch blk from 0 to 85 ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing 8 inch. Static level from surf. 55 ft.Tested capacity 130 gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Leng. h _____ Bottom set at _____ ft.

S.S. 7934 [Show location in Section Plat]Township name Joliet Elev. 636.1M Sec 18Description of location 2340' S. & 300' W. Twp 35Nof N.E. cor. sec. 18. Rge 10ESigned T. H. Smith County Will

Copy for Illinois State Water Survey

Index: 18-35N-10E

2 DRILLERS

WELL LOG #2

REQUESTED AND MAIL ORIGINAL TO STATE
SUMMER HEALTH PROTECTION, 538 WEST
61. DO NOT DETACH GEOLOGICAL/WATER
1 PROPER WELL LOCATION:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property Owner: Johnson - 2490 64th Well No.

Address: 40. 2490 64th St. NE

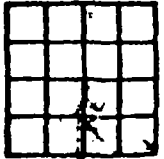
Driller: Barrett & Sons License No. 103-27

11. Permit No. 8333 Date: 11/10/79

12. Water from: Shallow 13. County: Alameda

at depth: 100 ft. to 100 ft. Sec. 25 Twp. 20 Rge. 2E

14. Screen: Diam. 1/2 in. Length: 10 ft. Slot 1/16 in. Elev. No. 25



15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	Black, 19"	0	42
Shank's Cement - Grout			

SHOW 25N-10E
LOCATION IN
SECTION PLAT
16 16 16

16. Size Hole below casing: 6 in.

17. Static level: 11 ft. below casing top which is 11 ft. above ground level. Pumping level: 11 ft. when pumping at 10 gpm for 10 hours over 10

18. FORMATION, PAVED THICKEN	THICKNESS	DEPTH OF BOTTOM
------------------------------	-----------	-----------------

Shale 0 3

Shale 3 40

Shale 40 108

Gravel 108 158

Gravel & Shale 158 300

19. MAIL ORIGINAL TO STATE

20. (CONTINUE ON SEPARATE SHEET, IF NECESSARY)

SIGNED: Barrett & Sons DATE: 2/20/79

WELL LOG #3

NEED TO DRILLERS

NEED AND MAIL ORIGINAL TO STATE DE-
PT. STATE OFFICE BUILDING, SPRINGFIELD,
GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Dr. R. J. Kelly Well No. 94

Address Chillicothe

Driller Engelhardt License No. 10-31-72

11. Permit No. 80735 Date 10-31-72

12. Water from Quaternary 13. County Willard

at depth 0 to 42 ft. Sec. 19

14. Screen: Diam. 1 in. Twp. 35N

Length: 10 ft. Rge. 10E

Elev. 100

15. Casing and Liner Pipe 1/2" x 10'

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	Black 15#	0	42

SHOW LOCATION IN SECTION, PLAT

Set 1 Block 31 C. 3
Robinson's Lake
Redevelopment No. 103

16. Size Hole below casing: 1/2" x 10'

17. Static level 13 ft. below casing top which is 13 ft. above ground level. Pumping level 13 ft. when pumping at 13 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH

Clay & Shale

Quaternary

THICKNESS	DEPTH OF BOTTOM
<u>42</u>	<u>42</u>
<u>140</u>	<u>140</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Dr. R. J. Kelly DATE 11-11-72

TO DRILL 1
 REQUESTED AND MAIL ORIGINAL TO STATE
 CONSUMER HEALTH PROTECTION, 535 WEST
 761. DO NOT DETACH GEOLOGICAL/WATER
 & PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Deanne R. Smith Well No. 14210

Address 419 E. 1st St. Great Falls, MT 59402

Driller Edg. Erickson License No. 102-0413

11. Permit No. 106930 Date 4-27-83

12. Water from Formation 13. County Walt

at depth 132 to 134 ft. Sec. 33.9

14. Screen: Diam. 1/2 in. Twp. 36N

Length: 105 ft. Slot 105 Rq. 105

Elev. 105

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	API Steel 15#/ft	0	30

16. Size Hole below casing: 5 in.

17. Static level 25 ft. below casing top which is 3/4 ft.

above ground level. Pumping level 50 ft. when pumping at 50 gpm for 14 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	2	2
Blue Clay	16	18
Shale	1	19
SANDSTONE	3	22
limestone	9.5	31.5

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Edg. Erickson DATE 4/27/83

WE T. REEF

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 6 in. Depth 90.5 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. 6 in. Depth 314 ft.
c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building 30 Ft. Seepage Tile Field 75'
Cess Pool ☐ Sewer (non Cast Iron) ☐
Privy ☐ Sewer (Cast Iron) ☐
Septic Tank 50' Barnyard ☐
Leaching Pit ☐ Manure Pile ☐
3. Is water from this well to be used for human consumption?
Yes ☒ No ☐

4. Date well completed 2-10-79
5. Permanent Pump Installed? Yes ☒ No ☐
Manufacturer Sta-Rite Type Submersible
Capacity 25 gpm. Depth of setting 735 ft.
6. Well Top Sealed? Yes ☒ No ☐
7. Pitless Adaptor Installed? Yes ☒ No ☐
8. Well Disinfected? Yes ☒ No ☐
9. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

10. Property owner Intercontinental Alloy's Corp. 1
Address N. Broadway St., Joliet, Ill.
Driller Charles Fykes License No. 23
Permit No. 83432 Date 2-2-79
11. Water from St. Peter Sand 13. County Will
at depth 640 to 905 ft.
14. Screen: Diam. ☐ in. Sec. 28
Length: ☐ ft. Slot ☐ in. Twp. 36N
Rge. 10E Elev. ☐
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6	A-53 19.45-lbs	0	314

SHOW
LOCATION IN
SECTION PLAT
5E 5E 5E

16. Size Hole below casing: 6 in.
17. Static level 635 ft. below casing top which is 41 ft.
above ground level. Pumping level 665 ft. when pumping at 25
gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH 90'
Gravel	7	7
Limestone	53	60
Shale	10	70
Gravel	40	110
Shale	110	313
Limestone	327	640
St. Peter Sand	265	905

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE NOV. 13, 1979

White - 97-
Ill. - 111-
Yellow Copy - Well Construction
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG #6

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug 5 Bored 5 Hole Diam. 5 In. Depth 160 ft.
Curb material Buried Slab: Yes No
b. Driven Drive Pipe Diam. In. Depth ft.
c. Drilled X Finished in Drift In Rock X
Tubular Gravel Packed
d. Grou:

(KIND)	FROM (FT.)	TO (FT.)
<u>Outcrops</u>		

2. Distance to Nearest:

- Building Ft. Seepage Tile Field 75
Cess Pool Sewer (non Cast Iron)
Privy Sewer (Cast Iron)
Septic Tank 50 Barnyard
Leaching Pit Manure Pile
3. Well furnishes water for human consumption? Yes X No
4. Date well completed 12-31-79
5. Permanent Pump Installed? Yes X Date 1-16-80 No
Manufacturer Red Jacket Type Submer Location well
Capacity 20 gpm. Depth of Setting 100 Ft.
6. Well Top Sealed? Yes X No Type
7. Pileless Adapter Installed? Yes X No
Manufacturer Model Number
How attached to casing?
8. Well Disinfected? Yes X No
9. Pump and Equipment Disinfected? Yes X No
10. Pressure Tank Size 42 gal. Type galv
Location Under
11. Water Sample Submitted? Yes No X

REMARKS:

Owner instructed to do so

10. Property owner Well No.

Address 141 W. Hubbard St. Chicago
Driller Phil Freeman License No. 103-87

11. Permit No. 91930 Date 12-5-79
12. Water from Formation Sec. 2234
at depth 15 to 162 ft. Twp. 36N
14. Screen: Diam. In. Rge. 10E
Length: ft. Slot Elev.

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (FT.)	To (FT.)
<u>5</u>	<u>BLK 1514</u>	<u>0</u>	<u>40</u>

SHOW LOCATION IN SECTION PLAT
NE SW NE
0-2-16

16. Size Hole below casing: 5 In.

17. Slotted level 15 ft. below casing top which is 1 ft. above ground level. Pumping level 162 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>1st 4' of sand</u>	<u>0</u>	<u>10</u>
<u>2nd 4' of sand</u>	<u>10</u>	<u>40</u>
<u>3rd 4' of sand</u>	<u>40</u>	<u>160</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Freeman DATE 1-16-80

Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS 62701. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

INSTRUCTIONS TO DRILLERS

WELL LOG #7

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

- Type of Well
 - Dug , Bored , Hole Diam. 5 in. Depth 130 ft.
 - Curb material , Buried Slab: Yes No
 - Driven , Drive Pipe Diam. 5 in. Depth 40 ft.
 - Drilled X, Finished in Drift , In Rock X
 - Tubular , Gravel Packed
 - GROUT:

(KIND)	FROM (Ft.)	TO (Ft.)
Cemented	5'	48
- Distance to Nearest:

Building <u>30</u> Ft.	Seepage Tile Field <u>75'</u>
Cess Pool <u> </u>	Sewer (non Cast Iron) <u> </u>
Privy <u> </u>	Sewer (Cast Iron) <u> </u>
Septic Tank <u>50'</u>	Barnyard <u> </u>
Leaching Pit <u> </u>	Manure Pile <u> </u>
- Is water from this well to be used for human consumption?
Yes X No
- Date well completed 10-4-77
- Permanent Pump Installed? Yes X No
Manufacturer Boone Type Submersible
Capacity 12 gpm. Depth of setting 108 ft.
- Well Top Sealed? Yes X No
- Pitless Adapter Installed? Yes X No
- Well Disinfected? Yes X No
- Water Sample Submitted? Yes No X

REMARKS:

- Property owner Dr. David C. Davis Well No. 1
Address 230 E. 8th St. Rockport
Driller Charles E. Davis License No. 33
Date 9-30-77
- Permit No. 67526
- Water from Shale Sec. 23
at depth 20 to 130 ft. Twp. 36N
14. Screen: Diam. in. Rge. 10E
Length: ft. Slot Elev.
- Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	A-53 1546	0	40

SHOW LOCATION IN SECTION PLAT
N.W. 1/4 S.E. 1/4

- Size Hole below casing: 5 in.
- Static level 40 ft. below casing top which is 7' ft. above ground level. Pumping level 40 ft. when pumping at 12 gpm for 1 hour.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF SECTION
Shale	30	20
Dimestone	130	130

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles E. Davis DATE 12-5-79

Make Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Construction
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS
FILL IN ALL PERTINENT INFORMATION REQUEST. AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 335 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

WELL LOG #8

1. Type of Well
a. Dig _____ Bored _____ Hole Diam. 5 in. Depth 14.5 ft.
b. Curb material _____ Buried Slab: Yes _____ No _____
c. Drilled X Drive Pipe Diam. 5 in. Depth 42 ft.
d. Tubular _____ Finished in Drift _____ In Rock X
Gravel Packed _____
e. Grou: _____
Cement _____
FROM (ft.) TO (ft.)
Cement _____ -5 _____ 42
2. Distance to Nearest:
Building 30 Ft. Seepage Tile Field 75 Ft.
Cess Pool _____ Sewer (non Cast Iron) _____
Privy _____ Sewer (Cast Iron) _____
Septic Tank 50 ft. Barnyard _____
Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes X No _____
4. Date well completed Sept. 14, 1987
5. Permanent Pump Installed? Yes _____ No X
Manufacturer _____ Type _____ Location _____
Capacity _____ gpm. Depth of Sailing _____ Ft.
6. Well Top Sealed? Yes X No _____ Type Vermin-Proof (Hms.)
7. Pileless Adapter Installed? Yes _____ No _____
Manufacturer _____ Model Number _____
How attached to casing? _____
8. Well Disinfected? Yes X No _____
9. Pump and Equipment Disinfected? Yes _____ No _____
10. Pressure Tank Size _____ gal. Type _____
Location _____
11. Water Sample Submitted? Yes _____ No X

Co #29933

10. Property owner Simpson Well & Pump Well No. 1
Address 309 May St., Lockport, IL
Driller Charles Pykes License No. 102-23
11. Permit No. 135046 Date Sept. 4, 1987
12. Water from Limestone Formation _____
at depth 42 to 14.5 ft. Sec. 27 Twp. 36N
14. Screen: Diam. _____ in. Rge. 10E
Length: _____ ft. Slot _____ Elev. _____
15. Casing and Liner Pipe
Diam. (in.) Kind and Weight From (ft.) To (ft.)
5 A-53 15 lbs. 0 42
16. Size Hole below casing: 5 in.
17. Static level 6 ft. below casing top which is 41 ft. above ground level. Pumping level 60 ft. when pumping at 10 gpm for 1 hours.
18. FORMATIONS PASSED THROUGH THICKNESS DEPTH OF BOTTOM
Top Soil 1' 1'
Limestone 144' 145'

SHOW LOCATION IN SECTION PLAT
NE NE NE

(CONTINUE ON SEPARATE SHEET IF NECESSARY)
SIGNED Charles Pykes DATE July 13, 1988

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG #9

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

INSTRUCTIONS TO DRILLERS

- Type of Well
a. Dug Bored Hole Diam. 2 in. Depth 47 ft.
Curb material Buried Slab: Yes No
b. Driven Drive Pipe Diam. 2 in. Depth 47 ft.
c. Drilled X Finished in Drill In Rock X
Tubular Gravel Packed
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
- Distance to Nearest:
Building 20 Ft. Seepage Tile Field 25
Cess Pool Sewer (non Cast Iron)
Privy Sewer (Cast Iron)
Septic Tank 50 Barnyard
Leaching Pit Manure Pile
- Is water from this well to be used for human consumption?
Yes X No
- Date well completed 5/29/74
- Permanent Pump Installed? Yes X No
Manufacturer Deere Type Electric
Capacity 10 gpm. Depth of setting 47 ft.
6. Well Top Sealed? Yes No X (If Yes, specify material used)
7. Pitless Adaptor Installed? Yes X No (If Yes, specify adaptor)
8. Well Disinfected? Yes X No (If Yes, specify disinfectant)
9. Water Sample Submitted? Yes No X

REMARKS: 202 WXT Groundwater Analysis Report

- Property owner Bob DeLauer Well No. 1
Address 3131 1/2 N. 2nd St. Springfield, Ill.
Driller DeLauer License No. 338
11. Permit No. 89382 Date 5/31/74
12. Water from Formation County Lucas
at depth 47 to 48 ft.
14. Screen: Diam. in. Sec. 34
Length: ft. Slot Rq. 10E
Elev.

15. Casing and Liner Pipe				SIGN	
Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	LOCATION	PLAT
5 1/2	A-22 15 lbs	0	47		

- Size Hole below casing: 3 in.
- Static level 62 ft. below casing top which is 71 ft. above ground level. Pumping level 62 ft. when pumping at 20 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF SECTION
	47'	47'
	98'	145'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)
SIGNED Charles DeLauer DATE 8/12/74

SUMMER HEALTH PROTECTION, 535 WEST
61. DO NOT DETACH GEOLOGICAL/WATER
1. PROF-90 LOCAT

WELL LOG #10

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 9-7-78

10. Property owner Don Bartlett Well No. 14016

Address 14016 Huntington Court, Oakland Park, Fla.

Driller Orange Drilling License No. 190-000-002

11. Permit No. 72017 Date 7/7/78

12. Water from Formation 13. County Orange

at depth to ft. Sec.

14. Screen: Diam. in. Twp.

Length: ft. Slot Rge.

Elev.

15. Casing and Liner Pipe

Diam. (in.) Kind and Weight From (ft.) To (ft.)

5"	Black Steel 14.33	0	25
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16. Size Hole below casing: 5 in.

17. Static level 10 ft. below casing top which is 1 ft. above ground level. Pumping level 10 ft. when pumping at gpm for 4 hours. Sub. pump set at 65'

18. FORMATIONS PASSED THROUGH THICKNESS DEPTH OF

Clear and Gravel	45	15
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Limestone	115	160
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(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Don Bartlett DATE 7/7/78

WILL

COUNTY NO. 27208

5-36N-11E

GEOLOGICAL AND WATER SURVEYS WELL RECORD
Completed 5-18-78

10. Property owner Mike Szwed

Well No. 11

Address 107 N. Perryville Road Clarendon Hills, IL
Driller Will DuPage Drilling License No. 102-000-445

11. Permit No. 74293

Date May 17, 1978

12. Water from Limestone

13. County Will

at depth to ft.

Sec. 6

14. Screen: Diam. in.

Twp. 36N

Length: ft. Slot

Rge. 11E

Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
5"	Black Steel 14.98	0	90

SHOW
LOCATION IN
SECTION PLAT
NE NW SW

PERMIT

16. Size Hole below casing: 5 in.

17. Static level 70 ft. below casing top which is 1 ft.
above ground level. Pumping level 80 ft. when pumping at 10
gpm for 4 hours. Sub. pump set at 105'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF
-------------------------------	-----------	----------

Clay and Gravel

90

90

Limestone

70

160

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Mike Szwed

DATE 8/11/78

JOINTLY NO. 272.17

WELL

6-36N-11E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 3-1-79

10. Property owner Mr. Tom Schwass Well No.

Address RR 4 Box 214 Lockport
Driller Will-Dupage Drilling License No. 102-000445

11. Permit No. 85650 Date 2-23-79

12. Water from Limestone 13. County Will

at depth to ft. Sec. 7

14. Screen: Diam. in. Twp. 36N

Length: ft. Slot Rge. 11E

Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	SHOW LOCATION IN SECTION PLAT
5	Black Steel 14.98	0	110	NE NE SW
				(permit)

16. Size Hole below casing: 5 in.

17. Start level 75 ft. below casing top which is 1 ft. above ground level. Pumping level 75 ft. when pumping at 10 gpm for 4 hours. Sub. pump set at 105'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH
Clay & Gravel	110	110
Limestone	65	175

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Donald E. Mc DATE 2-17-79

WILL

COUNTY NO 27476

7-36N-11E

C GEOLOGICAL AND WATER SURVEYS
Completed 10-12-74

10. Property owner: A. Sheppard Well No. 707

Address: Rock Road, Ill License No. 102-43

Driller: HARD Date: 10-11-74

11. Permit No. 32948 12. Water from Hydrant 13. County Will

at depth 42 to 115 ft. Sec. 18
14. Screen: Diam. 1/2 in. Twp. 36N
Length: 115 ft. Slo: 115 Rgs. 115
Elev. 115

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	SHOT LOCATION IN SECTION PLAT S. 1 S. 1 S. 1 (Permit)
5	Black	0	42	

16. Size Hole below casing: 1/2 in.

17. Static level 115 ft. below casing top which is 115 ft. above ground level. Pumping level 115 ft. when pumping at 115 gpm for 115 hours. Submersible pump set at 42'

18. FORMATIONS PASSED THROUGH	THICKNESS (ft.)	DEPTH OF BOTTOM (ft.)
<u>Clay & Limestone</u>	<u>0</u>	<u>42</u>
<u>Shale</u>	<u>42</u>	<u>115</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)
SIGNED D. H. Hill DATE 10-23-74

WILL

18-361-112

GEOLOGICAL AND WATER SURVEYS WELL RECORD

REDRILL Completed 2-20-77

10. Property owner Robert Finley Well No. 111

Address R.R. #1 E. 7th St Lockport, Ill

Driller Will-DuPaze Drilling License No. 102-43

11. Permit No. 56914 Date 2/18/77

12. Water from Limestone 13. County Will

at depth 19 to 36 ft.

14. Screen: Diam. 1 1/2 in. Twp. 36N

Length: 11E ft. Slot 11E Rge. 11E

Elev. 11E

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Black Steel 14.68	0	110

SHOW LOCATION IN SECTION PLAT NW NE SW (permit)

16. Size Hole below casing: 5 in.

17. Static level 125 ft. below casing top which is 1 ft. above ground level. Pumping level 145 ft. when pumping at 10 gpm for 4 hours. Sub. pump set at 165'

18. FORMATIONS PASSED THROUGH THICKNESS DEPTH OF BOTTOM

Clay & Gravel 110 110

Limestone 140 250

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles R. R. DATE 3/22/77

COUNTY NO. 2634

WILL

19-36N-11E

5 TO DRILLERS
 REQUESTER AND MAIL ORIGINAL TO STATE
 INSURER 1 .TH PROT 10N, 535 WEST
 1761. DO NOT DETACH GEOLOGICAL/WATER
 DE PROPER WELL LOCATION.

WELL LOG #18

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner: Anna Burch Well No. 1
 Address 152 Acres - 167th ; Lockport, IL.
 Driller Charles Fykes License No. 23
 11. Permit No. 104864 Date 9-16-82
 12. Water from Limestone 13. County Will
 at depth 84 to 150 ft. Sec. 29
 14. Screen: Diam. in. Twp. 36N
 Length: ft. Slot in. Rge. 11E
 Elev.

SHOW
 LOCATION IN
 SECTION PLAT
 NE NW NE

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
5"	A-53 15 lbs.	0	84

15. Casing and Liner Pipe
 16. Size Hole below casing: 5 in.
 17. Static level 20 ft. below casing top which is +1 ft.
 above ground level. Pumping level 80 ft. when pumping at 10
 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay & Gravel	84'	84'
Limestone	66'	150'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)
 SIGNED Charles Fykes DATE 10-30-82
29-36N-11E